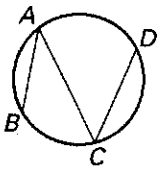
LESSON 11.5

NAME _____ DATE _____

Practice A

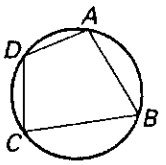
For use with pages 613–619

Use the diagram at the right.



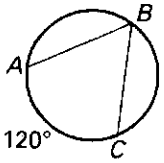
1. Name two inscribed angles.
2. Name two intercepted arcs.

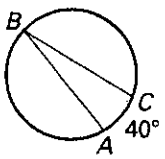
Use the diagram at the right.

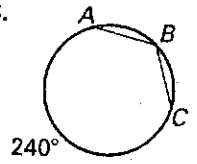


3. Name an inscribed polygon.
4. Name a pair of opposite angles.
5. Name a pair of supplementary angles.

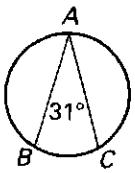
Find the measure of the inscribed angle.

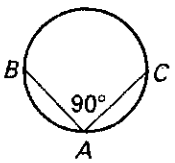
6. 

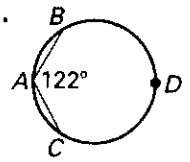
7. 

8. 

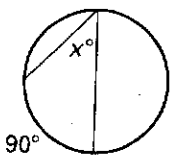
Find the measure of the intercepted arc.

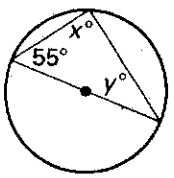
9. 

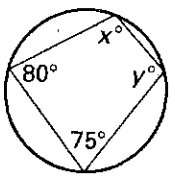
10. 

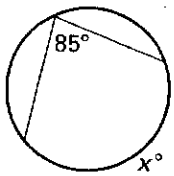
11. 

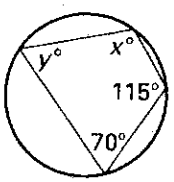
Find the value of each variable.

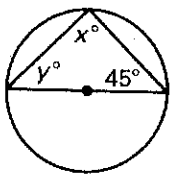
12. 

13. 

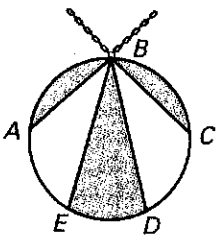
14. 

15. 

16. 

17. 

The necklace pendant shown at the right is a circle.



18. If $m\overset{\frown}{ED} = 70°$, find $m\angle EBD$.
19. If $m\angle ABE = 40°$, find $m\overset{\frown}{AE}$.

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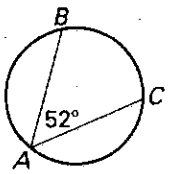
Practice B

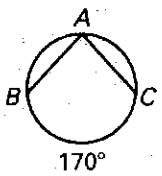
For use with pages 613–619

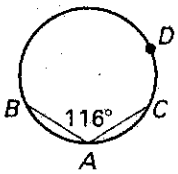
Complete the statement.

1. A(n) __?__ angle is an angle whose vertex is on a circle and whose sides contain chords of the circle.
2. If an angle is inscribed in a circle, then its measure is __?__ the measure of its intercepted arc.
3. If a triangle inscribed in a circle is a right triangle, then the hypotenuse is a __?__ of the circle.
4. If a quadrilateral can be inscribed in a circle, then its __?__ angles are supplementary.

Find the measure of the inscribed angle or the intercepted arc.

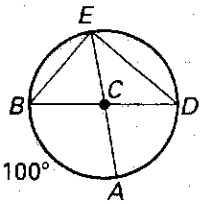
5. 

6. 

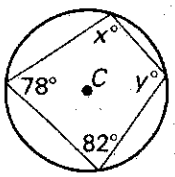
7. 

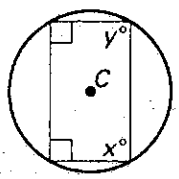
Use the diagram to find the measure of the intercepted arc or inscribed angle.

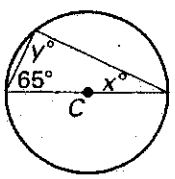
8. $m\angle BEA$
9. $m\widehat{AD}$
10. $m\angle BED$
11. $m\angle AED$



Find the values of x and y in $\odot C$.

12. 

13. 

14. 

Two chopsticks form $\angle ABC$ on a circular plate.

15. If $m\angle ABC = 54°$, find $m\widehat{AC}$.
16. If $m\widehat{AC} = 106°$ and $m\angle ABC = (3x + 8)°$, find the value of x.